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Nov 8, 1986

DERWENT-ACC-NO: 1986-335953
DERWENT-WEEK: 198651
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TITLE: Sintered aluminium nitride having high heat conductivity - prepd. by adding boron to nitride power, moulding and sintering in non-oxidising atmos.

PATENT-ASSIGNEE:

ASSIGNEE

ASAHI CHEM IND CO LTD

SHIN NIPPON KAGAKU KK

CODE

ASAH

SHIV

PRIORITY-DATA: 1985JP-0092242 (May 1, 1985)

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PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|--|------------------|----------|-------|----------|
| <input type="checkbox"/> JP 61251580 A | November 8, 1986 | | 004 | |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|-------------|----------------|------------|
| JP 61251580A | May 1, 1985 | 1985JP-0092242 | |

INT-CL (IPC): C04B 35/58

ABSTRACTED-PUB-NO: JP 61251580A

BASIC-ABSTRACT:

Sintered aluminium nitride consisting of AlN, contg. above 0.005 and below 3 wt.% boron, and below 1.5 wt.% O, having above 5 micron mean particle size and above 95% density basing on the theoretical density of AlN is prepd. by adding boron to powdery AlN having below 3.0 wt.% O, adjusting the boron content in the sintered prod. to above 0.005 wt.% and below 3 wt.%, moulding the mixt. and sintering in nonoxidising atmos.

USE - Sintered AlN having higher heat conductivity and bending strength than conventional prod. is obtd. The prod. is useful as material suitable for use at high temp.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SINTER ALUMINIUM NITRIDE HIGH HEAT CONDUCTING PREPARATION ADD BORON NITRIDE POWER
MOULD SINTER NON OXIDATION ATMOSPHERE

DERWENT-CLASS: L02